######################################	000000000 0000000000 0000000000 000 000 000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		LLL LLL LLL LLL LLL LLL LLL LLL
FFF	00000000	RRR RRR	RRR RRR	††† †††	
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 000000 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
		\$					

MODULE FOR\$\$DISPATCH\_T (%TITLE'I/O dispatch tables for FORTRAN' IDENT = '1-020' ! File: FORDISPAT.B32 ! File: FORDISPAT.B32 Edit: SBL1020 BEGIN COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. 10 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY 14 16 OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 1 \* CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. FACILITY: FORTRAN 1/0 ABSTRACT: This module contains the Global dispatch tables for the UDF (user data formatter) level and REC (record) level for FORTRAN. In addition it contains a routine which signals errors for invalid statement types. **ENVIRONMENT:** AST reentrant - all OWN storage is read only AUTHOR: Donald G. Petersen . CREATION DATE: 07-Dec-78 MODIFIED BY: DGP.06-Dec-78: VERSION 1-001

1-001 - original. DGP 06-Dec-78

1-002 - Add some functionality to OTS\$\$SIGDIS\_ERR. DGP 08-Dec-78

1-003 - Change dispatch tables to longwords. DGP 11-Dec-78

1-004 - Add Basic READ to dispatch tables. DGP 12-Dec-78

1-005 - Change FORLNK require file to OTSLNK. JBS 22-DEC-78

1-006 - Signal the proper errors in the error routine. DGP 18-Jan-79

1-007 - Change file name to OTSDISPAT to agree with RTL standards and internal comments. JBS 27-JAN-1979

1-008 - Use 32-bit addresses for externals. JBS 27-JAN-1979

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FORSSDISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                                                                                                                                                                                                                         16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page
               0079
0080
0081
0082
0083
0149
0150
0151
0155
0155
0156
                                                                                                                                                 PROLOGUE FILE:
                                                                                                                                      REQUIRE 'RTLIN: FORPROLOG':
                                                                                                                                                                                                                                                                                                                                                                                                          ! FORTRAN definitions
                                                                                                                                         ! TABLE OF CONTENTS:
                                                                                                                                    FOR$$SIGDIS_ERR : CALL_CCB NOVALUE,
FOR$$SIGDIS_JSB : JSB_UDFO NOVALUE;
                                                                                                                                                                                                                                                                                                                                                                                          ! Signal a dispatch error
! (JSB entry point)
                                                                                         0158
0159
0160
0161
                                                                                                                                                MACROS:
                                                                                                                                                                                     NONE
                                                                                          0162
0163
0164
0165
                                                                                                                                                 EQUATED SYMBOLS:
                                                                                                                                                                                     NONE
                                                                                        0166
0167
0168
                                                                                                                                                  EXTERNAL REFERENCES:
                                                                                        0169
0170
0171
                                                                                                                                    OTS$_FATINTERR.
OTS$_IO_CONCLO;
                                                                                       0172
0173
0174
0175
0176
0177
0178
               111
                                                                                                                                       ! Formatting level of abstraction
              EXTERNAL ROUTINE

FOR$$UDF_RFO: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RF1: CALC CCB NOVALUE WEAK,

FOR$$UDF_RF9: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WFO: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WF1: CALC CCB NOVALUE WEAK,

FOR$$UDF_RF9: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RU1: CALC CCB NOVALUE WEAK,

FOR$$UDF_RU9: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RL0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RL0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RL1: CALC CCB NOVALUE WEAK,

FOR$$UDF_RL1: 
                                                                                                                                                                                                                                                                                                                                                                                                                                  Initialize read formatted format one 1/0 list element
                                                                                         0180
0181
0182
0183
0184
0185
                                                                                                                                                                                                                                                                                                                                                                                                                          format one I/O list element
terminate read formatted
Initialize write formatted
Format one I/O list element
Terminate write formatted
Initialize read unformatted
Transmit one I/O list element
Terminate read unformatted
Initialize write unformatted
Initialize write unformatted
Transmit one I/O list element
Terminate write unformatted
Initialize read list-directed
Transmit one I/O list element
Terminate read list directed
Initialize write list-directed
Transmit one I/O list element
Terminate read list-directed
Initialize write list-directed
Initialize read NAMELIST
RN1 exists
                                                                                          0186
0187
                                                                                           0188
                                                                                           0189
                                                                                           0190
                                                                                           0191
                                                                                           0192
                                                                                           0194
0195
                                                                                           0196
0197
                                                                                                                                                                                                                                                                                                                                                                                 No UDF RN1 exists
T Terminate read NAMELIST
! Initialize write NAMELIST
                                                                                                                                                              FORSSUDF RN9 : JSB_UDF9 NOVALUE WEAK, FORSSUDF_WN0 : JSB_UDF0 NOVALUE WEAK,
```

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16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
FORSSDISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                                                                                                                                                                                                                                                                                          Page
                                                       0201
0202
0203
0204
0205
                                                                                                                                                                                                                            ! No UDF WN1 exists : Terminate write NAMELIST
         133901234567890123456789012345678901234567890123456789012345678901
                                                                                                FOR$$UDF_WN9 : JSB_UDF9 NOVALUE WEAK;
                                                                                   ! Record processing level of abstraction
                                                       0206
0207
0208
0209
0210
0211
0212
0213
0216
0217
0218
0221
0222
0223
                                                                               FOR$$REC_RSFO : JSB_RECO NOVALUE WEAK,
FOR$$REC_RSF1 : JSB_REC1 NOVALUE WEAK,
FOR$$REC_RSF9 : JSB_REC9 NOVALUE WEAK,
! formatted record
FOR$$REC_WSF0 : JSB_REC0 NOVALUE WEAK,
FOR$$REC_WSF1 : JSB_REC1 NOVALUE WEAK,
FOR$$REC_WSF1 : JSB_REC1 NOVALUE WEAK,
FOR$$REC_WSF9 : JSB_REC9 NOVALUE WEAK,
                                                                                                                                                                                                                                                             Read sequential formatted record read first record
                                                                                                                                                                                                                                                              read all subsequent records
                                                                                                                                                                                                                                                             terminate read write sequential
                                                                                                                                                                                                                                                              initialize output buffer
                                                                                             FOR$$REC_WSF0: JSB_REC1 NOVALUE WEAK,
FOR$$REC_WSF9: JSB_REC9 NOVALUE WEAK,
! read sequential unformatted record
FOR$$REC_RSU0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RSU0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RSU0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WSU0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RSU0: JSB_REC0 NOVALUE WEAK,
! read direct (formatted: and unformatted)
FOR$$REC_RD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WD0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MS10: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MMF0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MMF0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_MMF0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RKF1: JSB_REC1 NOVALUE WEAK,
FOR$$REC_RKF1: JSB_REC0 NOVALUE WEAK,
FOR$$REC_RKF0: JSB_REC0 NOVALUE WEAK,
FOR$$REC_WXF0: JSB_REC0 NOVALUE WEAK,
                                                                                                                                                                                                                                                              write all but last record
                                                                                                                                                                                                                                                              write last record
                                                                                                                                                                                                                                                              read first record
                                                                                                                                                                                                                                                              read all subsequent records
                                                                                                                                                                                                                                                             terminate read
                                                                                                                                                                                                                                                              initialize output buffer
                                                                                                                                                                                                                                                              write all but last record
                                                                                                                                                                                                                                                              write last record
                                                                                                                                                                                                                                                              read first record
                                                                                                                                                                                                                                                              read next record
                                                                                                                                                                                                                                                              terminate read
                                                                                                                                                                                                                                                              initialize output buffer
                                                                                                                                                                                                                                                              write next record
                                                                                                                                                                                                                                                              write last record
                                                                                                                                                                                                                                                              read first record
                                                                                                                                                                                                                                                              read all subsequent records
                                                                                                                                                                                                                                                            terminate read
                                                                                                                                                                                                                                                              initialize output buffer write all but last record
                                                                                                                                                                                                                                                              write last record
                                                                                                                                                                                                                                                              initialize pointers to user area
                                                                                                                                                                                                                                                              illegal
                                                                                                                                                                                                                                                             terminate read
                                                                                                                                                                                                                                                              initialize output buffer to user area
                                                       0246
0247
0248
                                                                                                                                                                                                                                                              illegal
                                                                                                                                                                                                                                                              terminate write
                                                                                                                                                                                                                                                             read keyed formatted
                                                        0250
                                                                                                                                                                                                                                                        ! read keyed unformatted
                                                                                                                                                                                                                                                       ! REWRITE indexed formatted
                                                                                                                                                                                                                                                      ! REWRITE indexed unformatted
```

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0		tables for FORTRAN	0-1984 00:18:37 VAX-11 Bliss-32 V4.0-742 0-1984 12:31:49 [FORRTL.SRC]FORDISPAT.B32:1	Page (2)
94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 11 12 13 14	0265 1 0266 1 0267 1 0268 1 0269 1 0270 1 0271 1 0272 1 0273 1 0274 1 0275 1 0276 1 0277 1 0278 1 0279 1 0280 1	FOR\$\$REC_WXU1 : JSB_REC1 P FOR\$\$REC_WXU9 : JSB_REC9 P FOR\$\$REC_WIF0 : JSB_REC0 P FOR\$\$REC_WIF1 : JSB_REC1 P FOR\$\$REC_WIF1 : JSB_REC1 P FOR\$\$REC_RIF0 : JSB_REC0 P FOR\$\$REC_RIF1 : JSB_REC1 P FOR\$\$REC_RIF1 : JSB_REC1 P FOR\$\$REC_WSN0 : JSB_REC1 P FOR\$\$REC_WSN1 : JSB_REC1 P FOR\$\$REC_WSN1 : JSB_REC1 P FOR\$\$REC_WSN1 : JSB_REC1 P FOR\$\$REC_WIL0 : JSB_REC1 P FOR\$\$REC_WIL1 : JSB_REC1 P FOR\$\$REC_WIL1 : JSB_REC1 P FOR\$\$REC_WIL1 : JSB_REC1 P FOR\$\$REC_RIL1 : JSB_REC1 P FOR\$\$REC_RIL2 : JSB_REC2 P FOR\$\$REC_RIL2 : JSB_REC3 P FOR\$\$REC_RIL3 : JSB_R	! Write internal file ! Read internal file ! Write NAMELIST ! There is no 9 level REC ! routine for Write NAMELIST ! Read NAMELIST ! There is no 9 level REC ! routine for Read NAMELIST ! Write internal list-directed ! Read internal list-directed	
19	0282 1 1 OW	IN STORAGE:		
				<b>E</b> 7
,				U.
				4

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FORSSDISPATCH_T I/O dispatch tables for FORTRAN 1-020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.832:1
                                                                                                                                            GLOBAL DISPATCH VECTORS (indexed by I/O statement type numbers): Connects the first level of abstraction (UPI) to the second level (UDF). Note: The comments down the side describe the I/O statement index (UPI level) into the
                 dispatch table rather than the external routine contained in the entry (UDF level). The entries are the name of the User data formatters (UDF level = 2nd level of abstraction) - First letter: R = READ, W = WRITE; second letter: F = formatted, W = unformatted, L = list-directed.

Declare as GLOBAL rather then GLOBAL BIND because BLISS doesn't allow BIND table = ... - table).
                                                                                                                                          Initialization of UDF level:
                                                                                       0299
0300
                                                                                        0301
                                                                                                                                  GLOBAL
                                                                                       0302
                                                                                                                                                      FORSSAA_UDF_PRO : VECTOR [ISB$K_FORSTTYHI - ISB$K_FORSTTYLO + 2., SIGNED]
                                                                                                                                                                             PSECT (FORSCODE) INITIAL
                                                                                                                                                                                                                                                                                                                           I/O on closed unit
                                                                                                                                                                                                   FOR$$SIGDIS_JSB - FOR$$AA_UDF_PRO,
! I/O statement
                                                                                                                                                                                                FORSSUDF WFO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RO - FORSSAA UDF PRO,
                                                                                        0307
                                                                                                                                                                                                                                                                                                                                                                                                                      WRITE sequential formatted (WSF)
                                                                                                                                                                                                                                                                                                                                                                                                                READ sequential formatted (RSF) WRITE sequential unformatted (WSU)
                                                                                        0309
                                                                                                                                                                                                                                                                                                                                                                                                                READ sequential unformatted (RSU)
WRITE direct formatted (WDF)
READ direct formatted (RDF)
WRITE direct unformatted (WDU)
                                                                                                                                                                                                                                                                                                                                                                                                                 READ direct unformatted (RDU)
                                                                                                                                                                                                                                                                                                                                                                                                              WRITE sequential list-direct (WSL)
READ sequential list-directed (RSL)
ENCODE (memory formatted) (WMF)
DECODE (memory formatted) (RMF)
FORTRAN REWRITE indexed formatted (WXF)
                                                                                                                                                                                                                                                                                                                                                                                                          FORTRAN REWRITE indexed formatted (WXF)
FORTRAN READ keyed formatted (RKF)
FORTRAN REWRITE indexed unformatted (WXU)
FORTRAN READ keyed unformatted (RKU)
FORTRAN WRITE internal formatted (WIF)
FORTRAN READ internal formatted (RIF)
FORTRAN WRITE NAMELIST
FORTRAN READ NAMELIST
FORTRAN WRITE internal list-directed
FORTRAN READ internal list-directed
```

(4)

FOR

FOR 1-0

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FOR$$DISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
                                                                                                                                                                                                                                             End of 1/0 list record processing
                                                                                                                                                                                                                                                                  FOR$SAA REC PR9: VECTOR [ISB$k_fORSTTYHI - ISB$k_fORSTTYLO + 2,, SIGNED]

PSECT (FOR$CODE) INITIAL (

FOR$$SIGDIS_JSB - FOR$$AA_REC_PR9, ! I/O on closed unit error

! I/O statement type:

FOR$$REC_WSF9 - FOR$$AA_REC_PR9, ! WRITE sequential formatted (WSF)

FOR$$REC_WSU9 - FOR$$AA_REC_PR9, | WRITE sequential unformatted (MSU)

FOR$$REC_WSU9 - FOR$$AA_REC_PR9, | WRITE direct formatted (WSU)

FOR$$REC_WD9 - FOR$$AA_REC_PR9, | WRITE direct formatted (WDU)

FOR$$REC_WD9 - FOR$$AA_REC_PR9, | WRITE direct unformatted (MDU)

FOR$$REC_WD9 - FOR$$AA_REC_PR9, | WRITE sequential list-directed (WSL)

FOR$$REC_RD9 - FOR$$AA_REC_PR9, | READ_sequential list-directed (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | READ_sequential list-directed (RSL)

FOR$$REC_WMF9 - FOR$$AA_REC_PR9, | READ_sequential list-directed (RSL)

FOR$$REC_WMF9 - FOR$$AA_REC_PR9, | FORTRAN REWRITE indexed formatted (FOR$$REC_WMF9 - FOR$$AA_REC_PR9, | FORTRAN REWRITE indexed unformatted (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | FORTRAN REWRITE indexed unformatted (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | FORTRAN REWRITE indexed unformatted (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | FORTRAN REWRITE indexed unformatted (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | FORTRAN READ keyed unformatted (RSL)

FOR$$REC_WSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal formatted (RSL)

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal formatted (RSL)

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal formatted (RSL)

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal list-directed

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal list-directed

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal list-directed

FOR$$REC_RSL9 - FOR$$AA_REC_PR9, | FORTRAN READ internal list-directed
                                                                                                                                                                                                                                         GLOBAL
                                                                                                                                                          0478
0479
0480
0481
0482
0483
0484
0485
0486
0487
0488
0490
0491
0492
0493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WRITE direct unformatted (WDU)
READ direct unformatted (RDU)
WRITE sequential list-direct (WSL)
READ sequential list-directed (RSL)
ENCODE (memory formatted) (WMF)
DECODE (memory formatted) (RMF)
FORTRAN REWRITE indexed formatted (WXF)
FORTRAN READ keyed formatted (RKF)
FORTRAN REWRITE indexed unformatted (WXU)
FORTRAN READ keyed unformatted (RKU)
FORTRAN WRITE internal formatted (WIF)
FORTRAN READ internal formatted (RIF)
NO REC9 for WRITE NAMELIST
NO REC9 for READ NAMELIST
FORTRAN WRITE internal list-dorected
FORTRAN READ internal list-directed
                                                                                                                                                           0494
                                                                                                                                                           0495
                                                                                                                                                          0496
                             439
                                                                                                                                                           0497
```

0498

```
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[FORRTL.SR(]FORDISPAT.B32;1
FOR$$DISPATCH_T 1/O dispatch tables for FORTRAN
1-020
    ROUTINE FOR$$SIGDIS_ERR : CALL_CCB NOVALUE =
                                        FUNCTIONAL DESCRIPTION:
                                                 Signal an error from the I/O dispatch process. The error code signalled depends on the statement type. One statement type is used by CLOSE to catch dispatches on a closed unit, which can happen if the CLOSE is done as part of recursive I/O. If the statement type is not the one used by CLOSE, we have an error in the RIL (an invalid statement type). Note that, at the present time, FORTRAN does not permit recursive I/O.
                                        FORMAL PARAMETERS:
                                                  NONE
                                         IMPLICIT INPUTS:
                                                  ISB$B_STTM_TYPE.rb.r
                                                                                                     Statement type of I/O statement
                                         IMPLICIT OUTPUTS:
   NONE
                                         ROUTINE VALUE:
                                         COMPLETION CODES:
                                                  NONE
                                        SIDE EFFECTS:
                                                 Signals OTS$ IO_CONCLO if the LUB is not open, or OTS$_FATINTERR if it is.
                                           BEGIN
                                           EXTERNAL REGISTER
                                                  CCB : REF $FOR$CCB_DECL;
                                            IF ( NOT .CCB [LUB$v_OPENED])
                                            THEN
                                        The file must have been closed with I/O still active on it.
                                                  SIGNAL_STOP (OTS$_10_CONCLO)
                                        This must be an attempt to use an unimplemented feature. It represents
                                        an internal error in the OTS.
                                                  SIGNAL_STOP (OTS$_FATINTERR);
                                            0
```

FOF

FOR

Syn

FOR

FOR FOR FOR FOR FOR ISB

PSE

FC

Pha

Ini Con Pas Sym

Syn

Cro ASS

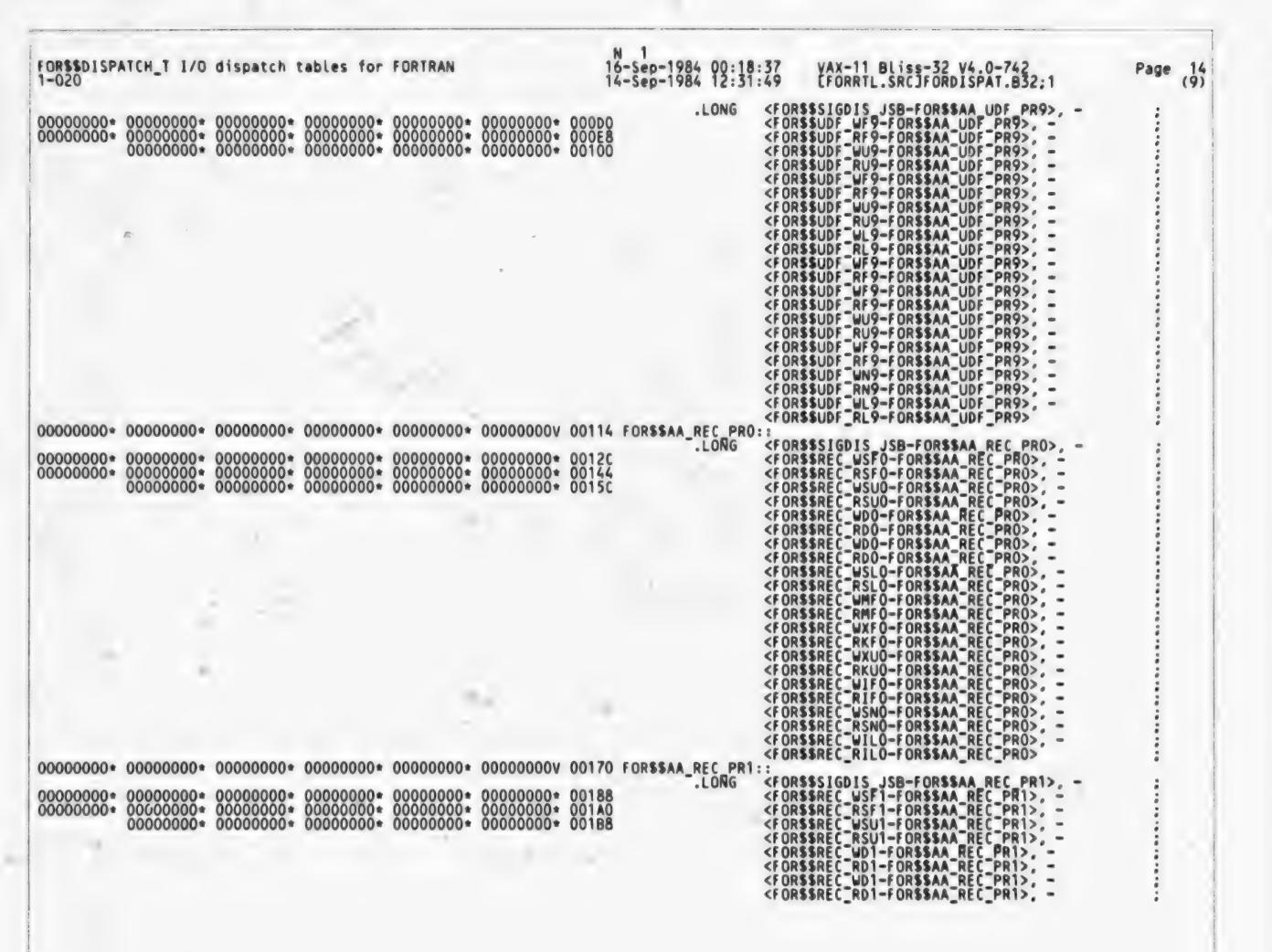
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C 2
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49 VAX-11 Bliss-32 V4.0-742
[FORRTL.SRCJFORDISPAT.B32;1
FOR$$DISPATCH_T I/O dispatch tables for FORTRAN 1-020
                                                                                                                                                                                                                                                                                                                                                                                                           Page 16 (9)
                                                                                                                                                                                                                                                                   FORSSUDF WL1, FORSSUDF WL9
FORSSUDF RNO, FORSSUDF RN9
FORSSUDF WNO, FORSSUDF WN9
FORSSREC RSFO, FORSSREC WSFO
FORSSREC RSF9, FORSSREC WSF9
FORSSREC RSUO, FORSSREC WSUO
FORSSREC RDO, FORSSREC WDO
FORSSREC RDO, FORSSREC WDO
FORSSREC RSUO, FORSSREC WDO
FORSSREC RSUO, FORSSREC WDO
FORSSREC RSUO, FORSSREC WSUO
FORSSREC RSUO, FORSSREC WSUO
FORSSREC RSUO, FORSSREC WSUO
FORSSREC RSUO, FORSSREC WSUO
FORSSREC RMF0, FORSSREC WMF0
FORSSREC RMF0, FORSSREC WMF0
FORSSREC WSFO, FORSSREC RKUO
FORSSREC WSFO, FORSSREC RKUO
FORSSREC WSFO, FORSSREC RSNO
FORSSREC RSNO, FORSSREC RSNO
FORSSREC RSNO, FORSSREC RSNO
FORSSREC RSNO, FORSSREC WILO
FORSSREC RILO
                                                                                                                                                                                                                                            . WEAK
                                                                                                                                                                                                                                            . WEAK
                                                                                                                                                                                                                                            .WEAK
                                                                                                                                                                                                                                             . WEAK
                                                                                                                                                                                                                                            . WEAK
                                                                                                                                                                                                                                             . WEAK
                                                                                                                                                                                                                                            . WEAK
                                                                                                                                                                                                                                             . WEAK
                                                                                                                                                                                                                                             . WEAK
                                                                                                                                                                                                                                             WEAK
                                                                                                                                                                                                                                             . WEAK
                                                                                                                                                                               0000 00000 FOR$$SIGDIS_ERR:
                                                                                                                                                                                                                                                                     Save nothing
-4(CCB), 1$
#OTS$_IO_CONCLO
                                                                                                                                                                                                                                                                                                                                                                                                                         0499
                                                                                                                                                                        AB
8F
                                                                                                                                                                                               00002
                                                                                                                                                                                      E8
                                                                                                                                                                                                                                            BLBS
                                                                                                                                      00000000G
                                                                                                                                                                                      DD
11
                                                                                                                                                                                                                                            PUSHL
                                                                                                                                                                         06
8F
                                                                                                                                                                                               00000
                                                                                                                                                                                                                                            BRB
                                                                                                                                                                                     DD 0000E 1$:
FB 00014 2$:
                                                                                                                                       0000000G
                                                                                                                                                                                                                                                                     #OISS FATINTERR
#1, LIBSSTOP
                                                                                                                                                                                                                                            PUSHL
                                                                                                                                                                                                                                                                                                                                                                                                                         0553
                                                                                                                                                                         01
                                                                                         00000000G
                                                                                                                                                                                                                                            CALLS
                                                                                                                                                                                                                                                                                                                                                                                                                         0556
                                                                                                                                                                                               0001B
                                                                                                                                                                                                                                            RET
: Routine Size: 28 bytes.
                                                                                               Routine Base: _FOR$CODE + 0228
```

FOR

```
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FOR$$DISPATCH_T 1/O dispatch tables for FORTRAN
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
[FORRTL.SRCJFORDISPAT.B32:1
1-020
                                       ROUTINE FOR$$SIGDIS_JSB : JSB UDFO NOVALUE =
    0558
0559
                          0560
                                          FUNCTIONAL DESCRIPTION:
                          0561
                          0562
0563
0564
0565
0566
0567
0568
                                                    Signal an error from the I/O dispatch process. The error code signalled depends on the statement type. One statement type is used by CLOSE to catch dispatches on a closed unit, which can happen if the CLOSE is done as part of recursive I/O. If the statement type is not the one used by CLOSE, we have an error in the RTL (an invalid statement type).

Note that, at the present time, FORTRAN does not permit
                                                     recursive 1/0.
                          0570
                                           FORMAL PARAMETERS:
                                                     NONE
                          0574
                                           IMPLICIT INPUTS:
                          0576
0577
                                                    ISB$B_STTM_TYPE.rb.r
                                                                                                         Statement type of I/O statement
                          0578
                          0579
                                           IMPLICIT OUTPUTS:
                          0580
                          0581
0582
0583
                                                     NONE
                                           ROUTINE VALUE:
                          0584
                                           COMPLETION CODES:
                          0585
                          0586
                                                     NONE
                          0587
                          0588
                                          SIDE EFFECTS:
                          0589
                                                    Signals OTS$ IO_CONCLO if the LUB is not open, or OTS$_FATINTERR If it is.
                          0590
                          0591
0592
0593
                          0594
0595
                                              BEGIN
                          0596
0597
0598
0599
                                              EXTERNAL REGISTER
                                                    CCB : REF $FOR$CCB_DECL;
                          0600
0601
0602
0603
0604
0605
0606
0607
0608
0609
0610
0611
0612
                                              IF ( NOT .CCB [LUB$V_OPENED])
                                              THEN
                                         The file must have ten closed with I/O still active on it.
                                                     SIGNAL_SIOP (OTS$_10_CONCLO)
                                              ELSE
                                          This must be an attempt to use an unimplemented feature. It represents
                                          an internal error in the OTS.
                                                     SIGNAL_STOP (OTS$_FATINTERR);
    556
557
                                              0
```

FOR 1-0

(10)

FORSSDISPATCH\_T I/O dispatch tables for FORTRAN 16-Sep-1984 00:18:37 14-Sep-1984 12:31:49 VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FORDISPAT.B32:1 Page 18 (10) 1-020 : 558 0614 1 END: !End of FOR\$\$SIGDIS\_JSB E8 00000 FOR\$\$SIGDIS JSB: 80 FC -4(CCB), 1\$ #OTS\$\_IO\_CONCLO 0600 DD 00004 11 0000A DD 0000C 15: FB 00012 25: 05 00019 0000000G PUSHL BRB 0000000G PUSHL #OTS\$\_FATINTERR 0611 000000006 00 #1, LIB\$STOP CALLS RSB 0614 ; Routine Size: 26 bytes, Routine Base: \_FOR\$CODE + 0244 559 560 561 0615 1 END 0616 1 0617 0 ELUI !End of module 0 ELUDOM .EXTRN LIB\$STOP PSECT SUMMARY Name Attributes Bytes \_FOR\$CODE 606 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) Library Statistics ----- Symbols -----Pages Processing file Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]STARLET.L32:1 \$255\$DUA28:[FORRTL.OBJ]FORLIB.L32:1 \$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32:1 00:01.0 711 185 00:00.6 00:00.1

FOI 1-0

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LISS:FORDISPAT/OBJ=OBJS:FORDISPAT MSRCS:FORDISPAT/UPDATE=(ENHS:FORDISPAT

: Size: 54 code + 552 data bytes : Run Time: 00:10.7

FORSSDISPATCH\_T I/O dispatch tables for FORTRAN 16-S

; Elapsed Time: 00:32.2 ; Lines/CPU Min: 3476 ; Lexemes/CPU-Min: 10061 ; Memory Used: 110 pages ; Compilation Complete F 2 16-Sep-1984 00:18:37 VAX-11 Bliss-32 V4.0-742

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0180 AH-BT13A-SE

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